

DETAILED ACTION

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Robert Moll on 08/28/09.

The application has been amended as follows:

For claim 34:

4. (**Twice-Currently amended**) The substrate with the plurality of via and pad structures of claim 44 **15**, wherein the first conductive pad extends beyond the terminal side of the component **at** a distance that reduces solder wicking without generating electrical shorts between the first conductive pad and an adjacent plated via.

Allowable Subject Matter

2. Claims 2-13, 15-29, and 34 are allowed (renumber claims are 1-28).

The following is an examiner's statement of reasons for allowance: the prior arts fail to teach, suggest, or in combination of a substrate with a via and pad structure having a first solder mask surrounding a first plated via and covers a part of a

conductive pad that extends beyond a solderable terminal end and reduce solder formation at the terminal end of a surface mount component (SMT).

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tuan T. Dinh whose telephone number is 571-272-1929. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Reichard Dean can be reached on 571-272-1984. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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Art Unit: 2841

Page 4

/Tuan T Dinh/
Primary Examiner, Art Unit 2841.